

National
Library
of MedicineMy NC
[Sign In] [Regis][All Databases](#) [PubMed](#) [Nucleotide](#) [Protein](#) [Genome](#) [Structure](#) [OMIM](#) [PMC](#) [Journals](#) [Books](#)Search [Limits](#) [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)Display Show

All: 1 Review: 1

 1: Brookes AJ, St Clair D.[Related Articles](#), [Links](#) Synuclein proteins and Alzheimer's disease.
Trends Neurosci. 1994 Oct;17(10):404-5. Review.
PMID: 7530877 [PubMed - indexed for MEDLINE][About Entrez](#)[Text Version](#)[Entrez PubMed](#)[Overview](#)[Help | FAQ](#)[Tutorial](#)[New/Noteworthy](#)[E-Utilities](#)[PubMed Services](#)[Journals Database](#)[MeSH Database](#)[Single Citation Matcher](#)[Batch Citation Matcher](#)[Clinical Queries](#)[LinkOut](#)[My NCBI \(Cubby\)](#)[Related Resources](#)[Order Documents](#)[NLM Catalog](#)[NLM Gateway](#)[TOXNET](#)[Consumer Health](#)[Clinical Alerts](#)[ClinicalTrials.gov](#)[PubMed Central](#)[Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Mar 25 2005 14:26:42

National
Library
of MedicineMy NC
[Sign In] [Regis][All Databases](#) [PubMed](#) [Nucleotide](#) [Protein](#) [Genome](#) [Structure](#) [OMIM](#) [PMC](#) [Journals](#) [Books](#)Search [Limits](#) [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)Display Show Sort by Send to All: 1 Review: 1 [About Entrez](#)[Text Version](#)[Entrez PubMed Overview](#)
[Help | FAQ](#)
[Tutorial](#)
[New/Noteworthy](#)
[E-Utilities](#)[PubMed Services](#)
[Journals Database](#)
[MeSH Database](#)
[Single Citation Matcher](#)
[Batch Citation Matcher](#)
[Clinical Queries](#)
[LinkOut](#)
[My NCBI \(Cubby\)](#)[Related Resources](#)
[Order Documents](#)
[NLM Catalog](#)
[NLM Gateway](#)
[TOXNET](#)
[Consumer Health](#)
[Clinical Alerts](#)
[ClinicalTrials.gov](#)
[PubMed Central](#) 1: Trends Neurosci. 1994 Oct;17(10):404-5.[Related Articles](#), [Links](#)

Synuclein proteins and Alzheimer's disease.

Brookes AJ, St Clair D.

MRC Human Genetics Unit, Western General Hospital, Edinburgh, UK.

In Alzheimer's disease, synuclein/NAC (non-amyloid beta component of Alzheimer's disease amyloid) proteins are found in presynaptic cholinergic nerve terminals that degenerate early in Alzheimer's disease, and they are also found closely linked to beta-amyloid fibrils in senile plaques. Synuclein/NAC proteins provide a potential molecular link between the degeneration of cholinergic nerve terminals, and the formation of plaques, and might have a primary role in their development.

Publication Types:

- Review
- Review, Tutorial

PMID: 7530877 [PubMed - indexed for MEDLINE]

Display Show Sort by Send to [Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Mar 25 2005 14:26:42



National
Library
of Medicine NLM

My NC
[Sign In] [Regis]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Book

Search Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

All: 3 Review: 1

Items 1 - 3 of 3

One page.

1: [Foulds LM, de Kretser DM, Farnworth P, Buttress D, Jenkin G, Groome NP, McFarlane JR.](#) Related Articles, Links

[Ovine allantoic fluid contains high concentrations of activin A: partial dissociation of immunoactivity and bioactivity.](#)
Biol Reprod. 1998 Aug;59(2):233-40.
PMID: 9687290 [PubMed - indexed for MEDLINE]

2: [Clayton DF, George JM.](#) Related Articles, Links

[The synucleins: a family of proteins involved in synaptic function, plasticity, neurodegeneration and disease.](#)
Trends Neurosci. 1998 Jun;21(6):249-54. Review.
PMID: 9641537 [PubMed - indexed for MEDLINE]

3: [Jin H, Clayton DF.](#) Related Articles, Links

[Synelfin regulation during the critical period for song learning in normal and isolated juvenile zebra finches.](#)
Neurobiol Learn Mem. 1997 Nov;68(3):271-84.
PMID: 9398589 [PubMed - indexed for MEDLINE]

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Mar 29 2005 17:30:14



National
Library
of Medicine



My NC
[Sign In] [Regis]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search for

Limits Preview/Index History Clipboard Details

Display Show Sort by Send to

All: 1 Review: 1

About Entrez

[Text Version](#)

[Entrez PubMed](#)

[Overview](#)

[Help | FAQ](#)

[Tutorial](#)

[New/Noteworthy](#)

[E-Utilities](#)

[PubMed Services](#)

[Journals Database](#)

[MeSH Database](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[LinkOut](#)

[My NCBI \(Cubby\)](#)

[Related Resources](#)

[Order Documents](#)

[NLM Catalog](#)

[NLM Gateway](#)

[TOXNET](#)

[Consumer Health](#)

[Clinical Alerts](#)

[ClinicalTrials.gov](#)

[PubMed Central](#)

1: Trends Neurosci. 1998 Jun;21(6):249-54.

[Related Articles](#), [Links](#)

ELSEVIER
FULL-TEXT ARTICLE

The synucleins: a family of proteins involved in synaptic function, plasticity, neurodegeneration and disease.

Clayton DF, George JM.

Beckman Institute and Dept of Cell and Structural Biology, The University of Illinois, Urbana 61801, USA.

Synuclein proteins are produced, in vertebrates, by three genes. They share structural resemblance to apolipoproteins, but are abundant in the neuronal cytosol and present in enriched amounts at presynaptic terminals.

Synucleins have been specifically implicated in three diseases: Alzheimer's (AD), Parkinson's (PD) and breast cancer. In AD, a peptide derived from alpha-synuclein forms an intrinsic component of plaque amyloid. In PD, an alpha-synuclein allele is genetically linked to several independent familial cases, and the protein appears to accumulate in Lewy bodies. In breast cancer, increased expression of gamma-synuclein correlates with disease progression. In songbirds, alpha-synuclein expression is correlated with plasticity in the developing song control system. Although the normal function of synucleins is unknown, a role in membrane plasticity seems likely.

Publication Types:

- Review
- Review, Tutorial

PMID: 9641537 [PubMed - indexed for MEDLINE]

Display Show Sort by Send to

[Write to the Help Desk](#)

[NCBI | NLM | NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)



National
Library
of Medicine



My NC
[Sign In] [Regis]

All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Book
Search PubMed	<input type="checkbox"/>	for Solomon B AND 2002	[Go] [Clear] [Save Search]						

Limits ▾ Preview/Index ▾ History ▾ Clipboard ▾ Details

Display **Summary** Show **500** Sort by Send to

All: 29 Review: 4

Items 1 - 29 of 29

One page.

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

1: [Solomon BS, Minkovitz CS, Mettrick JE, Carraccio C.](#) Related Articles, Links

Training in community pediatrics: a national survey of program directors.
Ambul Pediatr. 2004 Nov-Dec;4(6):476-81.
PMID: 15548097 [PubMed - indexed for MEDLINE]

2: [Solomon B.](#) Related Articles, Links

Protective Molecules in Alzheimer's Disease: Therapeutic Antibodies.
Drug News Perspect. 2002 Sep;15(7):410-416.
PMID: 12677176 [PubMed - as supplied by publisher]

3: [Solomon B.](#) Related Articles, Links

Immunological approaches as therapy for Alzheimer's disease.
Expert Opin Biol Ther. 2002 Dec;2(8):907-17. Review.
PMID: 12517269 [PubMed - indexed for MEDLINE]

4: [Cheung JS, Solomon BA.](#) Related Articles, Links

Disorders of sweat glands: hyperhidrosis: unapproved treatments.
Clin Dermatol. 2002 Nov-Dec;20(6):638-42. Review. No abstract available.
PMID: 12490357 [PubMed - indexed for MEDLINE]

5: [Burch HB, Bernet VJ, Plotkin FR, McCord CF, Howard RS, Solomon BL, Magdycz WP, Craig SC.](#) Related Articles, Links

Graves Disease in a US Army Special Forces Group.
JAMA. 2002 Dec 18;288(23):2975-6. No abstract available.
PMID: 12479762 [PubMed - indexed for MEDLINE]

6: [Solomon B, Frenkel D.](#) Related Articles, Links

Generation and brain delivery of anti-aggregating antibodies against beta-amyloid plaques using phage display technology.
J Neural Transm Suppl. 2002;(62):321-5.
PMID: 12456075 [PubMed - indexed for MEDLINE]

7: [Solomon B.](#) Related Articles, Links

Towards Alzheimer's disease vaccination.
Mini Rev Med Chem. 2002 Feb;2(1):85-92. Review.
PMID: 12369959 [PubMed - indexed for MEDLINE]

8: [Solomon B.](#) Related Articles, Links

Anti-aggregating antibodies, a new approach towards treatment of conformational diseases.
Curr Med Chem. 2002 Oct;9(19):1737-49. Review.

PMID: 12369884 [PubMed - indexed for MEDLINE]

- 9: [Bernet VJ, Anderson J, Vaishnav Y, Solomon B, Adair CF, Saji M, Burman KD, Burch HB, Ringel MD.](#) Related Articles, Links

 Determination of galectin-3 messenger ribonucleic Acid overexpression in papillary thyroid cancer by quantitative reverse transcription-polymerase chain reaction.

J Clin Endocrinol Metab. 2002 Oct;87(10):4792-6.

PMID: 12364475 [PubMed - indexed for MEDLINE]

- 10: [Pan W, Solomon B, Maness LM, Kastin AJ.](#) Related Articles, Links

 Antibodies to beta-amyloid decrease the blood-to-brain transfer of beta-amyloid peptide.

Exp Biol Med (Maywood). 2002 Sep;227(8):609-15.

PMID: 12192102 [PubMed - indexed for MEDLINE]

- 11: [Altarescu G, Sun M, Moore DF, Smith JA, Wiggs EA, Solomon BI, Patronas NJ, Frei KP, Gupta S, Kaneski CR, Quarrell OW, Slaugenhaupt SA, Goldin E, Schiffmann R.](#) Related Articles, Links

 The neurogenetics of mucolipidosis type IV.

Neurology. 2002 Aug 13;59(3):306-13.

PMID: 12182165 [PubMed - indexed for MEDLINE]

- 12: [Solomon BS, Duggan AK, Webster D, Serwint JR.](#) Related Articles, Links

 Pediatric residents' attitudes and behaviors related to counseling adolescents and their parents about firearm safety.

Arch Pediatr Adolesc Med. 2002 Aug;156(8):769-75.

PMID: 12144366 [PubMed - indexed for MEDLINE]

- 13: [Webster GF, Guenther L, Poulin YP, Solomon BA, Loven K, Lee J.](#) Related Articles, Links

 A multicenter, double-blind, randomized comparison study of the efficacy and tolerability of once-daily tazarotene 0.1% gel and adapalene 0.1% gel for the treatment of facial acne vulgaris.

Cutis. 2002 Feb;69(2 Suppl):4-11.

PMID: 12095066 [PubMed - indexed for MEDLINE]

- 14: [Hanan E, Priola SA, Solomon B.](#) Related Articles, Links

 Antiaggregating antibody raised against human PrP 106-126 recognizes pathological and normal isoforms of the whole prion protein.

Cell Mol Neurobiol. 2001 Dec;21(6):693-703.

PMID: 12043842 [PubMed - indexed for MEDLINE]

- 15: [Stocker DJ, Foster SS, Solomon BL, Shriver CD, Burch HB.](#) Related Articles, Links

 Thyroid cancer yield in patients with Graves' disease selected for surgery on the basis of cold scintiscan defects.

Thyroid. 2002 Apr;12(4):305-11.

PMID: 12034055 [PubMed - indexed for MEDLINE]

- 16: [Frenkel D, Solomon B.](#) Related Articles, Links

 Filamentous phage as vector-mediated antibody delivery to the brain.

Proc Natl Acad Sci U S A. 2002 Apr 16;99(8):5675-9.

PMID: 11960022 [PubMed - indexed for MEDLINE]

- 17: [Braga M, Walpert N, Burch HB, Solomon BL, Cooper DS.](#) Related Articles, Links

-  The effect of methimazole on cure rates after radioiodine treatment for Graves' hyperthyroidism: a randomized clinical trial.
Thyroid. 2002 Feb;12(2):135-9.
PMID: 11916282 [PubMed - indexed for MEDLINE]

- 18:** [Fischman W, Schutte DA, Solomon B, Lam GW.](#) [Related Articles](#), [Links](#)

-  The development of an enduring commitment to service work.
New Dir Child Adolesc Dev. 2001 Fall;(93):33-44. No abstract available.
PMID: 11873677 [PubMed - indexed for MEDLINE]

- 19:** [Frenkel D, Solomon B.](#) [Related Articles](#), [Links](#)

-  Towards Alzheimer's beta-amyloid vaccination.
Biologicals. 2001 Sep-Dec;29(3-4):243-7.
PMID: 11851323 [PubMed - indexed for MEDLINE]

- 20:** [Solomon B.](#) [Related Articles](#), [Links](#)

-  Immunotherapeutic strategies for prevention and treatment of Alzheimer's disease.
DNA Cell Biol. 2001 Nov;20(11):697-703.
PMID: 11788047 [PubMed - indexed for MEDLINE]

- 21:** [Levy Y, Hanan E, Solomon B, Becker OM.](#) [Related Articles](#), [Links](#)

-  Helix-coil transition of PrP106-126: molecular dynamic study.
Proteins. 2001 Dec 1;45(4):382-96.
PMID: 11746686 [PubMed - indexed for MEDLINE]

- 22:** [Solomon B, Moore J, Arthur C, Prince HM.](#) [Related Articles](#), [Links](#)

-  Lack of efficacy of twice-weekly urokinase in the prevention of complications associated with Hickman catheters: a multicentre randomised comparison of urokinase versus heparin.
Eur J Cancer. 2001 Dec;37(18):2379-84.
PMID: 11720831 [PubMed - indexed for MEDLINE]

- 23:** [Seymour JF, Solomon B, Wolf MM, Januszewicz EH, Wirth A, Prince HM.](#) [Related Articles](#), [Links](#)

-  Primary large-cell non-Hodgkin's lymphoma of the testis: a retrospective analysis of patterns of failure and prognostic factors.
Clin Lymphoma. 2001 Sep;2(2):109-15.
PMID: 11707851 [PubMed - indexed for MEDLINE]

- 24:** [Koppel R, Solomon B.](#) [Related Articles](#), [Links](#)

-  IgM detection via selective recognition by mannose-binding protein.
J Biochem Biophys Methods. 2001 Oct 30;49(1-3):641-7.
PMID: 11694307 [PubMed - indexed for MEDLINE]

- 25:** [Govorko D, Cohen G, Solomon B.](#) [Related Articles](#), [Links](#)

-  Single-chain antibody against the common epitope of mutant p53: isolation and intracytosolic expression in mammalian cells.
J Immunol Methods. 2001 Dec 1;258(1-2):169-81.
PMID: 11684134 [PubMed - indexed for MEDLINE]

- 26:** [Li X, Solomon B.](#) [Related Articles](#), [Links](#)

-  Zinc-mediated thermal stabilization of carboxypeptidase A.
Biomol Eng. 2001 Oct 31;18(4):179-83.

PMID: 11576872 [PubMed - indexed for MEDLINE]

- 27: O'Neil JJ, Stegemann JP, Nicholson DT, Gagnon KA, Solomon BA, Mullon CJ. [Related Articles](#), [Links](#)

 The isolation and function of porcine islets from market weight pigs.
Cell Transplant. 2001;10(3):235-46.
PMID: 11437069 [PubMed - indexed for MEDLINE]

- 28: SOLOMON B. [Related Articles](#), [Links](#)

 Nucleic acid content of the egg of the domestic fowl.
Biochim Biophys Acta. 1957 Jan;23(1):211-3. No abstract available.
PMID: 13412707 [PubMed - OLDMEDLINE for Pre1966]

- 29: AXELRAD B, FELTON LR, GOETZ AA, SAMPSON JJ, SOLOMON B. [Related Articles](#), [Links](#)

 Portable serial roentgenkymography in acute myocardial infarction.
Circulation. 1956 May;13(5):279-36. No abstract available.
PMID: 13356431 [PubMed - OLDMEDLINE for Pre1966]

Display Summary Show 500 Sort by Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Mar 29 2005 17:30:14



National
Library
of Medicine



My NC

[Sign In] [Regis]

All Databases

PubMed

Nucleotide

Protein

Genome

Structure

OMIM

PMC

Journals

Book

Search **PubMed**



for



Clear

Limits ▾ Preview/Index ▾ History ▾ Clipboard ▾ Details

Display **Abstract**



Show

20



Sort by



Send to



Related Articles



About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

□ 1: Expert Opin Biol Ther. 2002 Dec;2(8):907-17.

Related Articles, Links



Full text article at
www.ashley.pub.com

Immunological approaches as therapy for Alzheimer's disease.

Solomon B.

Department of Molecular Microbiology & Biotechnology, George S. Wise Faculty of Life Sciences, Tel-Aviv University, Ramat Aviv, Tel-Aviv 69978, Israel. beka@post.tau.ac.il

The pathology of Alzheimer's disease (AD) shows a significant correlation between beta-amyloid peptide (AbetaP) conformation and the clinical severity of dementia. For many years, efforts have been focused on the development of inhibitors of beta-amyloid (Abeta) formation and its related neurotoxic effects. The author has developed a new concept showing that site-directed antibodies may modulate formation of Abeta. The performance of anti-Abeta antibodies in transgenic mice models of AD showed that they are delivered to the central nervous system (CNS), preventing *in vivo* formation of Abeta. Moreover, these antibodies dissolve Abeta plaques and protect the mice from learning difficulties and age-related memory deficits. Experimental active immunisation with Abeta (1-42) in humans has been stopped in Phase II of their clinical trials. However, several new preparations, able to provide antibodies against Abeta by either active or passive routes, have been formulated and at least one of these is likely to reach clinical testing. These data support the hypothesis that AbetaP plays a central role in AD and antibodies which modulate Abeta conformation may lead to immunotherapy of the disease.

Publication Types:

- Review
- Review, Tutorial

PMID: 12517269 [PubMed - indexed for MEDLINE]

Display **Abstract**



Show

20



Sort by



Send to

